26603

S/186/61/003/004/002/007
The extraction of Americium with ... E141/E164

decreases on increasing the concentration of HNO3. The authors also calculated the equivalents of salting-out of a number of nitrates and found that the degree of extraction of Am increases on raising the ion-potential of the cation and the coefficients of activity of Am we well as that of the salting-out agent. Investigations on the mechanism of distribution of Am indicate that complexes of the type Am (NO3)3.n(TBP.m HNO3) are formed in the organic phase during extraction from very acidic solutions (HNO3 > 8M) and that no stable complexes of Am are formed with HNO3 in aqueous solutions. At high concentrations of the nitrate it was observed that the curves of the coefficients of activity are approximately parallel and are only slightly affected by J (J = ionic strength) of the solution. Average values of the equivalents of salting-out of nitrate of monovalent cations in the relation to 1M LiNO3 and coefficients of activity of Am in the salting-out agent when J = 4 are given, see Table 5. It can be seen that the salting-out effect is greater the higher the coefficient of activity of Am and of the salting-out agent, which

Card 2/4

26603

The extraction of Americium with ... $\frac{5/186/61/003/004/002/007}{E141/E164}$

is in agreement with the conclusions by I.L. Jenkins and H.A.C. McKay (Ref. 11: Trans. Farad. Soc., Vol. 50, 2, 107 (1954)).

There are 5 figures, 5 tables and 11 references: 7 Soviet and 4 English. The English language references read as follows: Ref. 3: H.A.C. McKay, I.V. Healy. Progress in Nuclear Chemistry,

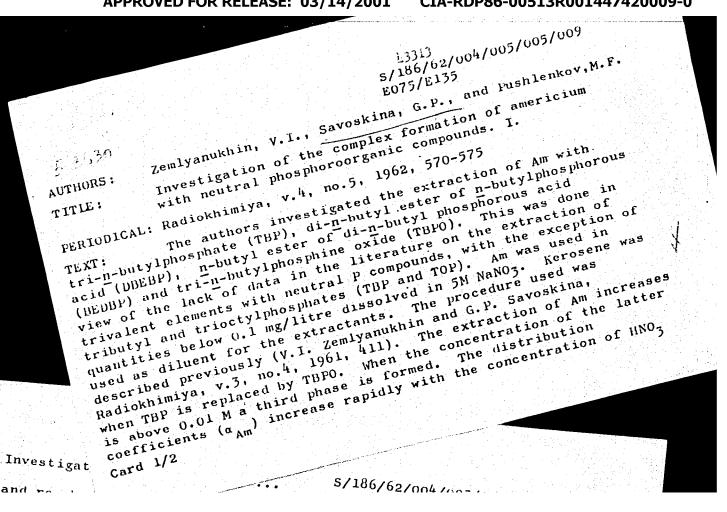
Vol.2, 554 (1948).

Ref.4: D.F. Peppard, W.I. Driscoll. J. Inorg. Nucl. Chem., Vol.4, 5/6, 326 (1957).

Ref.5: K.A. Walsh. Nucl. Sci. Abstr., Vol.12, 2, 1885 (1958). Ref.11: I.L. Jenkins, H.A.C. McKay, Trans. Farad. Soc., Vol.50, 2, 107 (1954).

SUBMITTED: September 2, 1960

Card 3/4



5/186/62/004/006/003/009 E075/E433

AUTHORS:

Zemlyanukhin, V.I., Savoskina, G.P., Pushlenkov, M.F.

TITLE:

A study of the formation of complex compounds of americium with diisoamyl ester of methylphosphinic

acid (DAMP)

PERIODICAL: Radiokhimiya, v.4, no.6, 1962, 655-660

The results of the experimental extraction of americium with DAMP from nitric, perchloric, hydrochloric, sulphuric and acetic acid solutions are described. The $^{241}\mathrm{Am}$ used contained no more than 2% of admixtures emitting α radiation. It was shown that the formation of complexes of americium with DAMP follows the same relationships as the formation of complexes with tributylphosphate. Americium is comparatively well extractable with DAMP from nitric and perchlorate solutions and weakly extractable from hydrochloric, sulphuric and acetic solutions. From nitric and perchlorate solutions americium is extracted in the form of $Am(NO_3)_3 \cdot 3DAMP$, the constant for which was calculated (k = 8.3). There are 5 figures and 4 tables.

SUBMITTED:

September 9, 1961

Card 1/1

ZEMLYANUKHIN, V.I.; SAVOSKINA, G.P.; FERREENENY, M.F.

Complex formation of americium with acid organophosphrus compounds. Radiokhimia 5 no. 6:72.67) 163.

(MIRA 17:7)

<u>L-27604-65</u> EWT(m)/EWP(j)/T/EWP(t)/EWP(b) Pc-4 IJP(c) JD/JG/RM

ACCESSION NR: AP5001643 S/0186/64/006/006/0694/0701

AUTHOR: Zemlyanukhin, V. I.; Savoskina, G. P.; Pushlenkov, M. F. 228

TITLE: Complexing of americium with neutral organophosphorus compounds. Part 2

SOURCE: Radiokhimiya, v. 6, no. 6, 1964, 694-701

TOPIC TAGS: americium extraction, americium complex, organophosphorus compound, alkyl phosphate

ABSTRACT: The authors studied the extraction of americium from nitric acid solutions, and investigated the influence of both the diluent and the chain length of radicals in the extracting agents. The extraction of americium from 1 M HNO3 solutions was found to increase in the series TBP < DBEBP</br>
TBPT. The extraction of nitric acid also increases in the same order, but to a much lesser extent. As the chain length of the aliphatic radicals increases in the phosphate extracting agents, the electronegativity of the P=0 group rises, causing steric hindrance, and hence the conditions for complexing become less favorable. The effective constant of complex formation by americium and HNO3 with neutral organophosphorus compounds depends on the nature of the diluent. The effective complexing constant of americium (KAm) is higher the more dilute the extracting agent; the

L 27604-65

ACCESSION NR: AP5001643

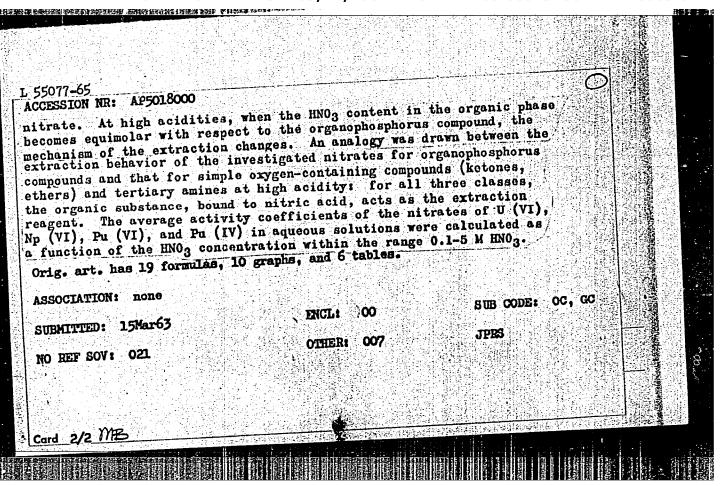
opposite is true in the case of K_{HNO3}. Orig. art. has: 8 figures and 7 tables.

ASSOCIATION: none

SUEMITTED: 12Dec63 ENCL: 00 SUB CODE: 1C

NO REF SOV: 004 OTHER: 000

. 55077-65 EWT(m)/EWP(j)/T/EWP(t)/EWACCESSION NR: AP5018000	UR/0186/64/006/006/0714/0724	
AUTHOR: Zemlyanukhin, V. I.; Savoski	na, G. P.; Pushlenkov, H. F.	
TITLE: Complex formation of nitrates organophosphorous compounds	of the transuranium elements with neutral	
SOURCE: Radiokhimiya, v. 6, no. 6, 1	964, 714-724	3116
VI), and Pu (IV) with: tri-h-buty behavior and Pu (IV) with: tri-h-buty behavior acid (DBEBP), and shinic acid (BEDBP), was studied in the influence of solvents. The distribution of the series of neutral interval 0.1-18 M HN03. The complement of the series The CDEBP < BEDBP.	the nitrates of U (IV), Np (VI), Pu phosphate (TBP), di-n-butyl ester of the n-butyl ester of di-n-butyl ester of the n-butyl ester of di-n-butyl ester of the nitrates were organophosphorous compounds within the xation constants of U02(N03)2.2T, u(N03).2T were calculated and increased It was concluded that the bond energy er of ester radicals replaced by alkyls extraction reagent added to the metal	



KOSTYUK, P.G. [Kostiuk, P.H.]; SAVOS'KINA, L.A. [Savos'kina, L.O.]

Effect of a dorsal root section on synaptic conduction in the spinal cord. Fiziol.zhur. [UKr.] 5 no.6:719-727 N-D '59. (MIRA 13:4)

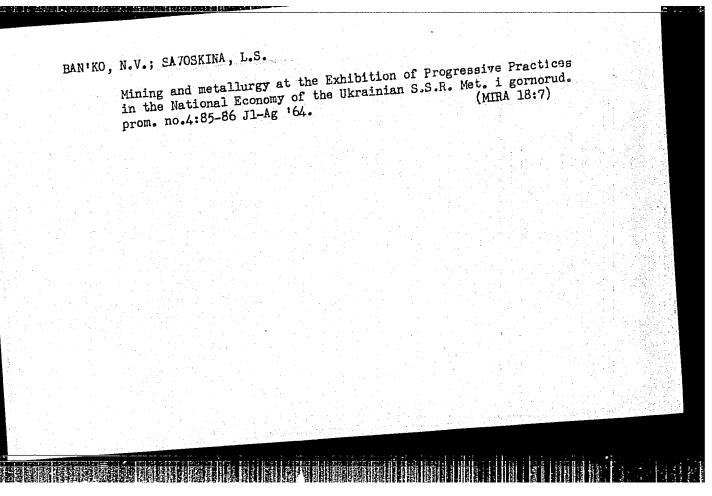
1. Institut fiziologii im. A.A. Bogomol'tsa Akademii nauk USSR, laboratoriya obshchey fiziologii. (SPINAL CORD)

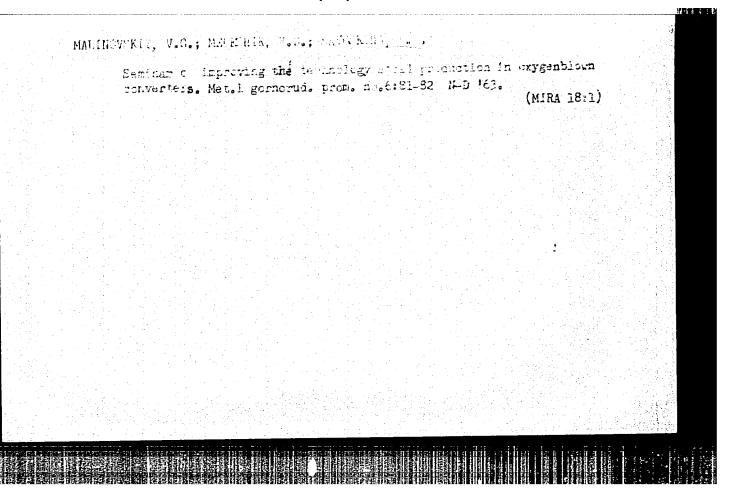
Effect of introductal injection of potassian chlorist on mone- and polysymaptic reactions of the spinal core. Fizicl. zhur. [Ukr.] 9 no.65723-730 New 163. (MIRA 1778)

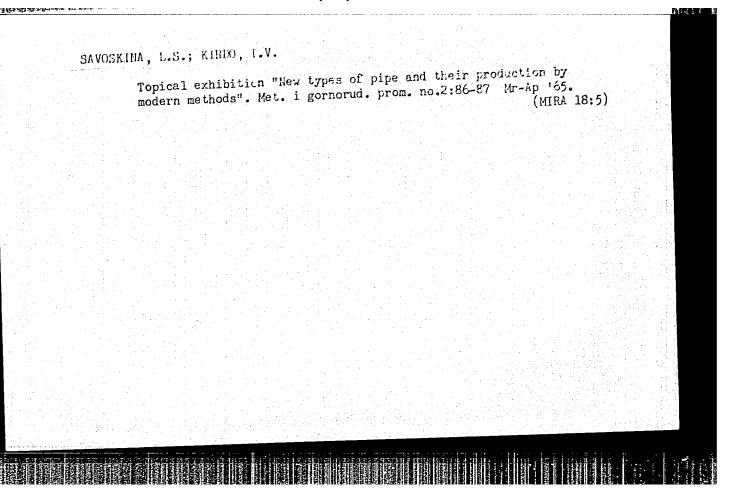
L. Laboratoriya onek hay rigiolasti core ata liniched im. Rogomed tag PN Ukr SB, Kiyev.

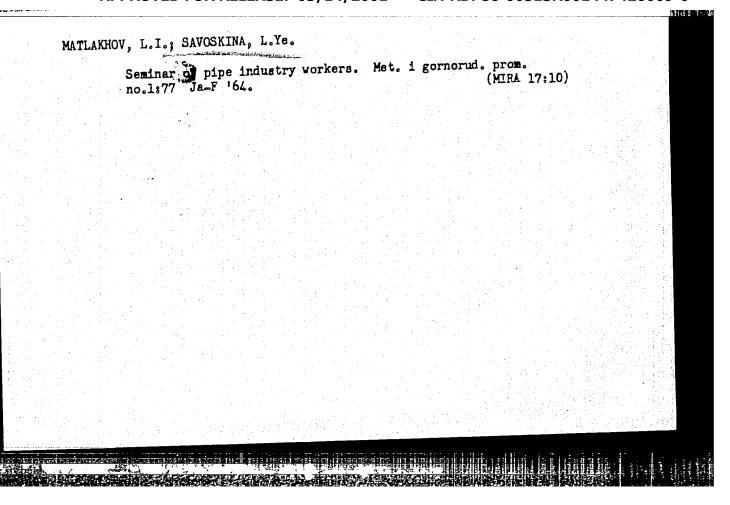
Functional changes in degenerating central synaptic endings.
Fizici. zhur. [ukr.] 8 no.5:581-592 S.O'62.

1. Laboratory of General Physiology of the A.A.Begomol'tsa Institute of Physiology of the Ukrainian S.S.R., Kiev.









AUTHOR: Korchagin, Yu. M.; Savos'kina, V. P.; Tarasova, Ye. STITLE: A new phenol adsorption method for determining the ads SOURCE: Kauchuk i rezina, no. 5, 1963, 49-51	0049/0051 67 6
TITLE: A new phenol adsorption method for determining the ads carbon black SOURGE: Kauchuk i rezina, no. 5, 1963, 49-51	orption surface of
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그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	
TOPIC TAGS: carbon black, adsorption, adsorption surface, roughton	ghness, phenol
ABSTRACT: In view of the coarseness of furnace carbon black are factory performance as reinforcing filler in tires, it is important the exact coefficient of coarseness (the ratio of its adsorption geometrical surface). The authors present a simple new test for an ination of the adsorption surface of furnace carbon black PM-7 was recommended by the laboratory of the Scientific Research In line Industry, which adopted it at their carbon black plant after the method is based on the determination of the amount adsorbed by a weighed sample of carbon black from an aqueous photograph of the sample of carbon black from an aqueous photograph.	rtant to know on surface to the or the deter- o. This test estitute of the er a thorough

L 12687-63 ASSOCIATION NR: AP3001598 of known concentration, measured by interferometer. The authors added another simplification to the procedure of determining the true adsorption surface of furnace carbon black by replacing the tedious heating of 7000 in a nitrogen current by an experimentally established coefficient which permits the calculation of the degassed surface of carbon black from its original one. Orig. art. has: 1 chart and 2 tables. ASSOCIATION: Barnaul'skiy sazhevy*y zavod (Barnaul Carbon Black Plant) ENCL: 00 DATE ACQ: 08Jul63 SUBMITTED: 00 OTHER: 000 NO REF SOV: 000 SUB CODE: 00 Card_ 2/2

Makarova, G. P., Savos'ko, V. K., Candidates 30-8-21/37 AUTHORS:

of Historical Sciences.

The October Revolution and the Victory of Socialism in Central Asia and Kazakhstan (Oktyabr'skaya Revolyutsiya i pobeda TITLE:

sotsializma v Sredney Azii i Kazakhstane).

Vestnik Akademii Nauk SSSR, 1957, Vol. 27, Nr 8, pp. 91-94 PERIODICAL:

(USSR)

This is a report concerning a conference of the Academies of ABSTRACT:

Central Asia which took place at Alma Ata from May 7 - May 11 and was convened at the initiative of the AN USSR. The conference was attended by a number of scientists of the Russian federation and representatives of numerous institutions as guests. The topic discussed was "The Victory of Socialism in Central Asia". Lectures were delivered by representatives of the Kazakhstan, Tadzhikistan, Uzbekistan, Turkmen and Kirgizian Union Republics. Interesting and vivid debates followed. A.V. Pyaskovskiy spoke about "The Idealization and Unnatural Representation of Events of the Revolution". He spoke in favor of sticking to the truth when telling of the events of past history and criticised the

methods hitherto adopted by historians. S. B. Baishev spoke

about the rules governing the development of socialism and about

Card 1/2

The October Revolution and the Victory of Socialism in Central 30-8-21/37

its particular features in the Soviet Republics of Central Asia. Several speakers dealt with the successful emancipation

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Card 2/2

SAPARGALIYEV, G.S., kand. yurid.nauk; PAL'GOV, N.N., akad.; BOGATYREV, A.S.; AFANAS'YEV, A.V., prof.; BYKOV, B.A.; SHAKHMATOV, V.F., kand. istor. nauk; POKROVSKIY, S.N., akad.; SAVOS'KO, V.K., kand. istor. nauk; NUSUPBEKOV, A.K., kand. istor. nauk; BAISHEV, S.B., akad.; GOROKH-VODATSKIY, I.S., kand. istor. nauk; AKHMETOV, A., kand. istor. nauk; PIVEN', N.F.; CHULANOV, G.Ch., doktor RAKHIMOV, A., kand. istor. nauk; PIVEN', N.F.; CHULANOV, G.Ch., doktor ekonom. nauk; BOROVSKIY, V.A., kand. ekonom. nauk; SYDYKOV, A.S., kand. pedagog. nauk; ZHANGEL'DIN, T., kand. filos. nauk; KARASAYEV, L.K.; pedagog. nauk; ZHANGEL'DIN, T., kand. filos. nauk; KARASAYEV, L.K.; KANAPIN, A.K., kand. istor. nauk; BELENOV, M.D., kand. ekonom. nauk; KARYNBAYEV, S.R., kand. med. nauk; AKHMETOV, K.A.,; SMIRNOVA, N.S., doktor filolog. nauk; YERZA-doktor filolog.nauk; SIL'CHENKO, M.S., doktor filolog. nauk; YERZA-KOVICH, B.G., kand. iskusstvovedcheskikh nauk; RYBAKOVA, N.; MUKHTA-ROV, A.I.; BOGATENKOVA, L.I.; KUNDAKBAYEV, B.; SIRANOV, K.S.; SHVYD-KO, Z.A., red.; MAMTSOVA, L.B., red.; ZLOBIN, M.V., tekhn. red.

[The Soviet Kazakh Socialist Republic] Kazakhskaia Sovetskaia Sotialisticheskaia Respublika. Alma-Ata, Kazakhskoe gos. izd-vo, (MIRA 14:6)

1. Akademiya nauk Kaz.SSR (for Pal'gov, Pokrovskiy, Baishev)
2. Chlen-korrespondent Akademii nauk KazSSR (for Bykov, Smirnova, Sil'chenko)

(Kazakhstan)

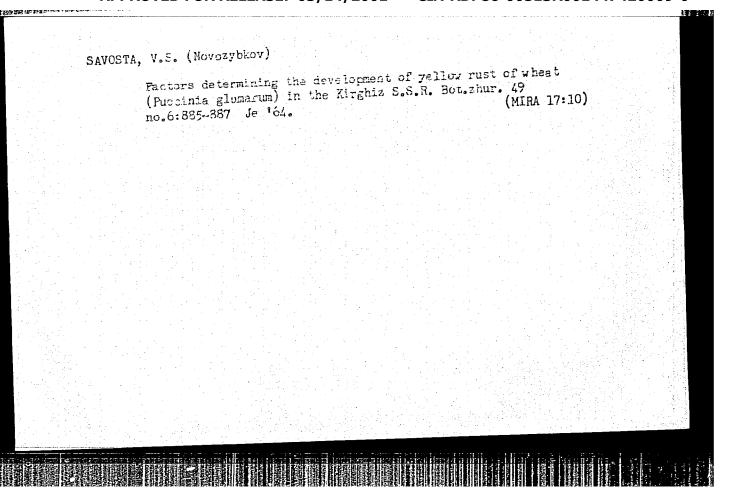
MIKHAYLOV, Fedor Kuz'mich; SHAMSHATOV, Ibragim Shamshatovich; SAVOS'KO, V.K., kand. ist. nauk, otv. red.; LEVIN, M.L., red.

[Popular movement for the reclamation of the virgin lands in Kazakhstan, 1953-1960] Narodnoe dvizhenie za osvoenie tselinnykh zemel' v Kazakhstane, (1953-1960 gody). Alma-Ata, Izdvo AN Kaz.SSR, 1964. 359 p. (MIRA 17:5)

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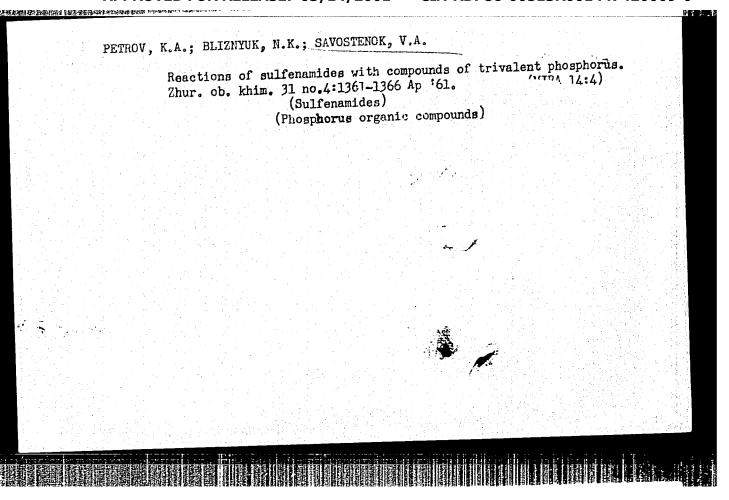
SAVOSTA, V.S. (Novozybkov, Bryanskoy oblasti)

Forecast for stripe rust. Zashch. rast. ot vred. 1 bol. 9
no.8:41 '64. (MIRA 17:12)



Making and assembling tubular supports of radio relay systems and television stations. Mont.i spets.rab.v stroi. 22 no.8:14-18 Ag '60. (MIRA 13:8)

1. Glavstal konstruktsiya, trest Stal montazh. (Television—Antennas) (Radio—Antennas)



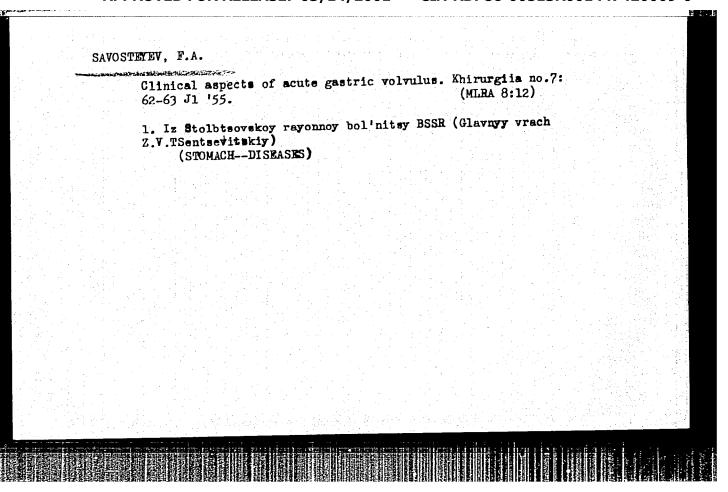
PETROV, K.A., HLIZNYUK, N.K., SAVOSTENOK, V.A.

"Reactions of sulfenamides with compounds of trivalent phosphorus."

Khimiya i Primementye Fosforonyanicheskikh Soyedinrafy (Chemistry and application of organichosphorus compounds) A. YE. ARTIME, Ed. 1951, by Kazan Affills Acad. 1952, Prosent 1962, 12 pp.

Collection of complete papers presented at the 1359 Kazan conference of Chemistry of Presumbaphorus Compounds.

ned. 17, No. 2,	1953.		- 10 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15
		기적 관광병복회	
	of Congr	June	1953, Uncl.
Associance	INCHEA OF COME.	~~~ ,	
		of Congr	Accessions, Library of Congress,June



SAYOSTEYEV, F.A., vrach

History of the study of the prevention of farm accidents. Sov.
zdrav. 17 no.12:31-35 D '58. (MIRA 12:2)

1. Iz Stolbtsovskoy rayonney bol'nitsy Minskoy oblasti Belorusskoy
SSR.

(ACCIDENTS, prev. & control
in rural cond., hist. (Rus))
(RURAL COMDITIONS
accid. prev., hist. (Rus))
(ACCIDENTS, INDUSTRIAL, prev. & control,
farm accid., in Russia (Rus))

SAVOSTEYEV, F. A., Candidate Med Sci (diss) -- "Agricultural traumatism in Stolbtsovskiy Rayon between 1946 and 1955". Minsk, 1959. 15 pp (Minsk State Med Inst), 150 copies (KL, No 22, 1959, 122)

25(3)

AUTHOR:

SOV/117-59-6-26/33

Savostikova, N.V., Candidate of Economic Sciences

TITLE:

Inter-Shop Transfer of Semi-Finished Production

PERIODICAL:

Mashinostroitel', 1959, Nr 6, pp 41-42 (USSR)

ABSTRACT:

The author criticizes the practice of using delivery and acceptance cards in the transfer of parts and subassemblies from shop to shop within a plant. This practice has resulted in the use of 7 million such cards a year at the Gor'kovskiy avtomobil'nyy zavod, or the GAZ (Gor'kiy Automobile Plant). From 1955 on, the Stalingrad Tractor Plant (and since 1956 the GAZ) has started using a new transfer system, without the cards. In the new system, every plant shop gets its quota of parts to be delivered to other can be seen by the number of ready automobiles or tractors turned out by the assembly shop. uses a new quality control system preventing, or at least minimizing, delivery of faulty parts to the

Card 1/2

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SOV/117-59-6-26/33

Inter-Shop Transfer of Semi-Finished Production

assembly shop. The Taganrogskiy kombaynovyy zavod (Taganrog Harvester Combine Plant) now uses a system of quality control whereby the cost of rejects is deducted from the pay of the responsible worker. The mechanical shops are now watching for timely delivery of parts to prevent stoppage of the production lines due to lack of parts, and the stocks of parts and subassemblies are kept in careful order. The author stresses the beneficial effect of the new, document-less, part transfer system.

Card 2/2

RAZUMOV, Nikolay Alekseyevich; SAVOSTIKOVA, Nine Vasillyevna; SIRMOV, Ye.I., red.; GERASIMOVA, Ye.S., tekhn. red.

[Analysis of carrying out the production program in assortment]

[Analyz vypolnenia proizvodstvennoi programmy po assortimentu. Analiz vypolnenia proizvodstvennoi mogrammy po (MIRA 15:9)

[Moskva, Ekonomizdat, 1962. 76 p.

[Moscow-Andustrial management)

(Moscow-Auditing and inspection)

Sow tore.	of links increased instead no.6:44-45 Je '58.		
1. Predsec	iatel' Sergiyevskogo raypot	rebsoyuza Kuybyshevskoy	
oblasti.	(Wholesale trade)		

 $5 A V \cup S T \cup A = 5$ 1(2)(3)(4);26(1)^{P. 2} PHASE I BOOK EXPLOITATION SOV/3376

- Silovyye ustanovki vertoletov; sbornik statey (Helicopter Power Units; collection of articles) Moscow, Oborongiz, 1959. 184 p. Errata slip inserted. 2,400 copies printed.
- Ed.: M. M. Maslennikov, Professor; Managing Ed.: A. S. Zaymovskaya; Ed. of Publishing House: I. A. Suvorova; Tech. Ed.: V. P. Rozhin.
- PURPOSE: This book is intended for specialists who design, manufacture and operate helicopters, and may also be used by instructors and students of schools of higher technical education.
- COVERAGE: This book contains 7 articles which discuss problems connected with the application of gas turbines for driving helicopter rotors and with jet driven rotors. The author is particularly concerned with increasing the power, economy, ticularly concerned with increasing the power, economy, ticularly concerned with distance of helicopters. There are useful load, and flight distance of helicopters. There are references, both Soviet and non-Soviet, in footnotes throughout the book.

Card 1/4

Helicopter Power Units (Cont.)

sov/3376

TABLE OF CONTENTS:

- Comparative Evaluation of One-shaft and Twoshaft Turboprop Engines for Helicopter Power Plants. 1. Mikerov, A. V. The author finds the efficiency of a two shaft turboprop engine slightly higher than the efficiency of a similar one shaft engine. The one shaft engine however, has higher acceleration.
- 2. Shal'man, Yu. I. Investigation of Rotation Losses in Gas Tur-Rotation losses are defined as losses due to the aerodynamic bines. drag of turbine blades when the turbine is rotated by external forces. They depend on the twist of the airfoil of the turbine blade, but do not depend on the profile of the airfoil.
- 3. Savostin, A. F. Possibility of Using a Free Gas Turbine for 48 the Direct Drive of the Helicopter's Rotor

Card 2/4

sov/3376

Helicopten Power Units (Cont.) The use of low-speed turbines for the direct drive of rotor blades is possible, but results in a lower efficiency co-

efficient.

D. U. Experimental Investigation of Diffusor Exhaust The author gives methods of determining hydraulic charac-4. Gurevich, teristics of exhaust conduits of turboprop engines, describes their elements, and gives data on their hydraulic resistance and their installation. Some data are also given on the use of the kinetic energy of turboprop engine exhaust gases and on the prospect of future development.

5. Khasileva, D. P. Method of Analysis of Characteristics of Free Turbine Turbo-prop Engines for Helicopters. The analysis described differs from other methods in the consideration of exhaust conduit characteristics and in more precise evaluation of the influence of turbine rotation on

Card 3/4

sov/3376 Helicopter Power Units (Cont.) The method is comparatively simple. engine characteristics. 6. Bekhli, Yu. G. and I. I. Mashkevich. Evaluation of the Possibility of Using Exhaust Gases in the Compressor Reactive Drive of Helicopter Rotor Blades (Gas-air mixture 147 system) This article is based on French and English experiments in 1952 and 1955 on the use of turbine gases to drive helicopter rotor blades. (Doran's DH-Oll and Napier's Oryx Gas Generator) 7. Kaganovich, B. P. Some Problems of Helicopter Rotor Blades Driven by Turbojet Engines The author describes the operating conditions of turbojet 167 engines mounted on helicopter rotor blades and suggests some solutions of basic technical problems connected with this propulsion method. AVAILABLE: Library of Congress (TL716.M4) AC/mmh 4-13-60 Card 4/4

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ZHURAVLEV, Aleksey Nikitovich; SAVOSTIN, A.I., nauchn. red.;
KONCHA, F.F., red.; NESYYSIOVA, L.M., tekhn. red.

[Tolerances and technical measurements] Dopuski i tekhnicheskie izmereniia. Moskva, Proftekhizdat, 1963. 171 p.
(MIRA 17:2)

ANOSOV, V.I.; SAVOSTIN, A.M.; PINES, V.G.; MILYUTKINA, V.P.; MIROPOL'SKAYA, M.A.; FEDOTOVA, N.I.; SAMOKHVALOV, G.I.

Preparation of \(\gamma_-\gamma_-\gamma_-\text{dimethylallyl alcohol and isopropenylethyl alcohol from the product resulting from the condensation of isobutylene, Zhur. ob. khim. 31 no.4:1154-1157 Ap '61.

(MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.

(Butenol) (Pentenol)

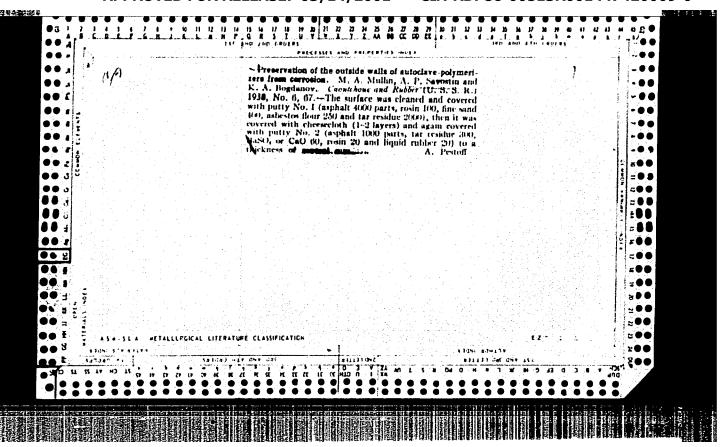
SAVOSTIN, A.N.; BIRYUKOV, A.A., nauchnyy redaktor; GLADYSHEVA, S.A., redaktor; DVORNIKOVA, N.I., tekhnicheskiy redaktor

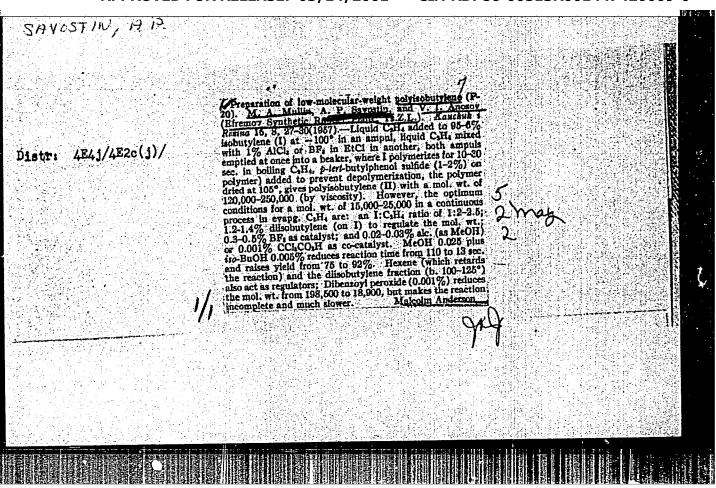
[A question of the employees' honor] Delo chesti kollektiva.

Hoskva, Gos. izd-vo lit-ry po stroit. materialam, 1953. 41 p.

(Building fittings)

(HLRA 7:10)





5(2) AUTHORS:

Savostin, A.P. and Alimarin, I.P.

SOV/55-58-2-29/35

TITLE:

Separation of Small Quantities of Tantalum from Titanium With

the Aid of Pyrogallic Acid (Otdeleniye malykh kolichestv

tantala ot titana pirogallovoy kislotoy)

PERIODICAL:

Vestnik Moskovskogo Universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1958, Nr 2, pp 211-216 (USSR)

ABSTRACT:

The authors propose to precipitate small quantities of tantalum under existing 100- and 1000-fold quantity of titanium by pyrogallic acid in presence of a ftorion. The radiometric control showed that by threefold repetition of the precipitation on an average 70-80% of the tantalum can be separated. In the residual precipitate the ratio Ta: Ti

was on an average 1: 0,2 - 0,4 .

There are 2 figures, 3 tables, and 2 references, 1 of which

is Soviet, and 1 English.

ASSOCIATION: Kafedra analiticheskoy khimii (Chair of Analytic Chemistry)

June 8, 1957 SUBMITTED:

Card 1/1

5(2) AUTHORS:

Savostin, A. P., Alimarin, I. P.,

SOV/153-58-4-5/22

TITLE:

On the Problem of the Precipitation Process of Small Tantalum Quantities According to the Method of Co-Precipitation (K voprosu o mekhanizme vydeleniya malykh kolichestv tantala

metodom soosazhdeniya)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 4, pp 29-34 (USSR)

ABSTRACT:

Since tantalum and titanium have similar chemical properties (Refs 1, 2), microquantities of tantalum can be co-precipitated from the solution with titanium selenite. As is known, selenic acid precipitates white precipitates of selenites of Ti, Ta, Nb, Cr, V (III), Pb, Ag and Hg from mineral acid solutions, whereas no precipitates are formed by Al, Cu, Zn, Mg, Co, W, M and V(V) (Ref 3). Thus Ta, Nb and Ti can be separated by selenic acid from a whole group of elements. The authors tried hard to remove most of the carrier and to obtain tantalum in a more or less pure state. In tartaric acids containing HCl, Ta and Ni are quantitatively precipitated by selenic acid (Ref 4). It is necessary to precipitate twice, because titanium is not precipitated by selenic acid under these conditions, and is

Card 1/4

On the Problem of the Precipitation Process of Small SOV/153-58-4-5/22 Tantalum Quantities According to the method of Co-Precipitation

co-precipitated in the presence of Ta and No. The authors intended to investigate into the behavior of microquantities of tantalum in the presence of large titanium quantities. A hydrochloric titanium solution and an oxalic tantalum solution containing tantalum-182 were used in the experiments. Table 1 shows data on the influence exerted by the nature of the acid and the acidity upon the separation of tantalum with a precipitation of titanium selenite. As may be seen from it, titanium is better separated from nitric acid solutions and hydrochloric acid solutions (the same acidity given), in spite of almost the same character of precipitation. Thus, selenic acid separates titanium and tantalum insufficiently from highly acid solutions. Solutions of ammonium oxalate, tartaric acid and sodium fluoride were used in the investigation of the influence exercised by complex-forming reagents upon the complete separation of titanium and tantalum. The precipitations were subjected to similar operations as mentioned above, after they had been stored overnight. The results are presented in table 2, from which it may be seen that the authors did not sufficiently succeed in maintaining most of the carrier as an

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On the Problem of the Precipitation Process of Small SOV/153-58-4-5/22 Tantalum Quantities According to the Method of Co-Precipitation

oxalate or tartrate complex in the solution, with the whole microcomponent to be separated into the precipitate. Better results would be obtained by using sodium fluoride or different quantities of the precipitant (Table 3). Additional experiments were carried out to clarify the problem whether the coprecipitation is of adsorption or isomorphous character. According to the results (Table 4), the authors arrived at the conclusion that the co-precipitation process of tantalum with titanium selenite has no adsorption character. From table 5 it may be seen that approximately an average quantity of the microcomponent is carried along by the precipitate. That carrying along is, under the corresponding conditions, explained by the fact that titanium selenite possesses a certain degree of solubility at increased temperature, which decreases when it is cooled, so that part of the titanium selenite is precipitated into the precipitate carrying along tantalum with it. It results from this that selenic acid makes the separation of tantalum microquantities on the carrier (titanium selenite) possible,

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On the Problem of the Precipitation Process of Small SOV/153-58-4-5/22 Tantalum Quantities According to the Method of Co-Precipitation

but does not secure the separation of these two elements. There are 6 tables and 4 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

Kafedra analiticheskoy khimii (Chair of Analytic Chemistry)

SUBMITTED: October 25, 1957

Card 4/4

CIA-RDP86-00513R001447420009-0 "APPROVED FOR RELEASE: 03/14/2001

5 (2) AUTHORS:

Savostin, A. P., Alimarin, I. P.

SOV/55-58-6-15/31

TITLE:

The Separation of Small Quantities of Niobium From Titanium by Means of Pyrogallic Acid (Otdeleniye malykh kolichestv

niobiya ot titana pirogallovoy kislotoy)

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1958, Nr 6,

pp 111-119 (USSR)

ABSTRACT:

This article is a continuation of a paper which was published in this periodical 1958, Nr 2. The separation of niobium from titanium was attained by leaching out the pyrosulphate alloy of the two oxides by means of an aqueous solution of pyrogallic acid with a small addition of ammonia and sodium fluoride, heating this solution to boiling point, and following neutralization of the basic solution by means of hydrochloric acid. The quantity of the separated titanium was colorimetrically determined from its reaction with H202 by means of photoelectric colori- and nephelometer FEK-52, and the quantity of niobium by measuring γ -radiation (For these investigations the radioactive isotope Nb95 was used). It was

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The Separation of Small Quantities of Niobium From Titanium by Means of Pyrogallic Acid

SOV/55-58-6-15/31

found that separation depends in a high degree on the large quantity of excess potassium pyrosulphate and sodium fluoride, because SOA keeps titanium dissolved under complex formation, whereas it hardly influences Nb at all. By triple precipitation it was possible to separate 60-70 % of the niobium by means of this method (Table 1). Further, this method of separation was investigated in the presence of other elements (Ta) and at various ratios Ti : No (Tables 2-6). With an increase of the Ti-content in the alloy, the excess potassium pyrosulphate (Table 4) had also to be increased correspondingly, but this at the same time led to a complex formation of Nb with H2SO and thus to the dissolution of the Nb. In further investigations only the concentration of NaF was therefore increased (Table 5). Also investigations were carried out in which other acids were used (HCl) (Table 7), and sodium carbonate was also used instead of the potassium sulfate used in the alloy. The last-mentioned investigations were found to be more favorable for the separation of larger quantities of Ti from smaller quantities of No than the method used first,

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The Separation of Small Quantities of Niobium From SOV/55-58-6-15/31 Titanium by Means of Pyrogallic Acid

because by the increase of the quantity of sodium carbonate, the Nb is not dissolved by complex formation in the further course of the separation process. Corresponding data may be found in the last tables (8-14). There are 1 figure, 14

tables, and 6 Soviet references.

ASSOCIATION: Kafedra analiticheskoy khimii (Chair for Analytical Chemistry)

SUBMITTED: September 9, 1957

Card 3/3

SAVOSTIN, A. P., Cand of Chem Sci — (diss) "Determination of Small Quantities of Tantalum and Niobium in the Presence of Tintanium By Means of Percipitation and Isotopic Dillution," Moscow, 1959, 8 pp (Moscow State Univ im Lomonosov, Chair of Snalytical Chemistry) (KL, 4-60, 115)

MULLIN, M.A.; SAVOSTIN, A.P.; ANOSOV, V.I.; CHEMODANOVA, Ye.S.

Stabilization of mineral oils thickened with low-molecular polyisobutylene. Khim. i tekh.topl. i masel 4 no.1:49-52 [MIRA 12:1]

1. TSentral'naya zavodskaya laboratoriya Yefremovskogo zavoda sinteticheskogo ka'uchuka.

(Lubrication and lubricants) (Propene) (Depolymerization)

Determination of small amounts of tantalum and miobium in granites with the aid of isotope dilution. Vest.Mosk.un.Ser. 2: Khim. 15 no.1:45-48 '60.

1. Kafedra analiticheskoy khimii Moskovskogo universiteta.

(Isotopes)

(Tantalum—Analysis)

(Niobium—Analysis)

L 12289-63 EWP(j)/EPF(c)/EWT(m)/BDS Pc-4/Pr-4 RM/WW 64/075 63

AUTHOR: Savostin, A. P., Pines, G. D. and Koval'chuk, L. A.

TITLE: Contact conversion of methyl-tert-butyl ether into isobutylene

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 5, 1963, 413, abstract 5N8 (Vestn. Tekhn. i ekon. inform. N-i. in-t tekh-ekon issled. Gos. kom-ta Sov. Min. SSSR po khimii, 1962, no. 4, 20 - 21)

TEXT: The catalytic splitting of methyl-tert-butyl ether (I) into CH₂ = CH(CH₂) II was investigated in a quartz tube (diam. 27 mm, length 1000 mm), filled with 200 ml of active Al₂O₃ (length of the layer 400 mm, Al₂O₃ previously heated to 400°C for 4 hours) and placed in a tubular electric oven 800 mm long. An industrial mixture was used, containing 93 - 94% I, 2 - 3% CH₃OH and 1 - 2% water. I forms azeotropes with the latter with b.p. 51.6°C (content CH₃OH 15%) and 52.6°C (water content 4%). 15 ml of I are passed through the tube. The liquid products, containing up to 25% CH₃OH, are condensed in a cooler, gathered in a container and cooled by ice. Gaseous products are gathered in a gas meter, are then passed in an Orsa apparatus through containers filled with alkali, 53% H₂SO₂ and Br₂, for determining the CO₂ content, II and butylenes. The effect of temperature of contact in Card 1/2

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Contact conversion of

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the 175 - 380°C range was studied and the inflow rate of I at 0.65 kg/hour per 1 kg of catalyst (KT) and the inflow rate of I at 0.26 - 1.6 kg/hour at 250°C on the yield of II. KT is periodically regenerated by passing a slow current of air (2 hours at 500°C through it, until CO₂ is not present in the air blown through. The dependence of yield of II on the duration of action of KT at 250°C is discussed and of the rate of inflow of I at 0.56 kg/hour. The optimum conditions were established for conducting the reaction: temperature of contact, 250°C, the inflow rate of I at 0.56 - 0.8 kg/hour; yield of II — 96%; KT is regenerated over a period of 20 - 25 hours. I is contained in by-products, formed in the synthesis of isopreme by the condensation of II with CH₂O. V. Litvinov.

Abstractor's note: Complete translation7

Card 2/2

s/0032/64/030/009/1045/1053

ACCESSION NR: AP4044892

The present state of the analytical chemistry of gallium (s review) AUTHOR: Savostin, A. P.

SOURCE: Zavodskaya laboratoriya, v. 30, no. 9, 1964, 1045-1053 TITLE

TOPIC TAGS: gallium

ABSTRACT: The earlier reviews on the analytical chemistry of gallium were presented by T. V. Cherkashina and V. M. Vladimirova (Zavodskaya laboratoriya, XXV, 1307, 1959), and by A. I. Busev and L. M. Skrebkova (Sb. "Metody" opredeleniya i analiza redkikh elementov", Izd. AN SSSR, p. 201, 1961). The presence of gallium can be detected qualitatively by color reactions with a number of organic reagents, 0.06 micrograms gallium being the minimum detectable amount. The present work describes the leading gravimetric procedures and the ways to overcome interferences. In the section on titrimetric techniques a selective indicator for gallium is described. The photometric procedures are discussed at length, covering the colorimetric, fluorometric, and spectrophotometric techniques. A number of these techniques involve extraction of the organogallium complexes by means of organic solvents (the sensitivity of the lumogallion IREA method is 0.005 microgram gallium in 5 ml).

Card 1/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001447420009-0"

ACCESSION NR: AP4044892

electrochemical methods, and in particular the polarographic method, are extensively used in the determination of gallium in various materials, but they usually require a preliminary separation of interfering substances. The determination of gallium by amperometric titration is also reported. In view of the small amounts of gallium in natural compounds, the most effective method for its determination is the spectral natural compounds, the sensitive down to the concentration of 10-4%, it is technique. Because it is sensitive down to the concentration of 10-4%, it is replacing the slow and laborious chemical method (especially when applied in combination with the so-called "enrichment" procedure). For the detection of its trace quantities, gallium is activated by neutron irradiation, and the activity of Ga⁷² quantities, gallium is activated by neutron irradiation, and the activity of Ga⁷² is evaluated by a Geiger counter. The "isotope-dilution" technique, as applied to polymetallic ores, allows the determination of quantities of gallium down to 10-7%.

ASSOCIATION: none

SUBMITTED: 00

SUB CODE: MM

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ENCL: 00

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Card 2/2

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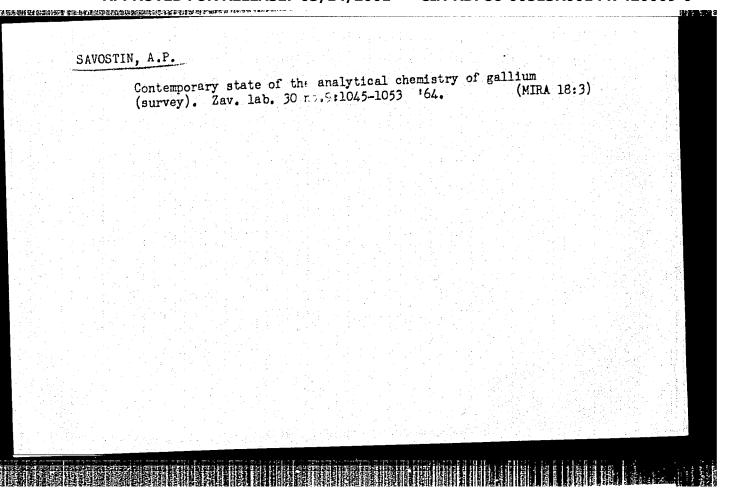
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ACCESSION NR: AT5002775

tectic which contains 8.8 wtz (0.45 atz) Re, the γ-phase based on Be₂₀Re compound forms a finely branched network. The primary formations of the γ-phase in hypereutectoid alloys are scattered within the solid solution of Be. In the investigated alloys Be is present in the form of the α-modification and in an f.c.c. γ-phase on a Be₂₀Re base which has a theoretical Re content of 50.78 wtz. The solubility of Re in Be is less than 1.0 wtz at the eutectic temperature, and less than 0.7 wtz at 600C. The cast alloys containing 2—12% Re have a considerably higher hardness than that according to the additivity rule, which is ascribed to the presence of mechanical stresses in the finely branched sutectic crystallized under conditions of rapid cooling. As the amount of the sutectic decreases and the amount of the γ-phase increases, the hardness of the alloys drops, and in alloys containing more than 12% Re it is equal to the mean arithmetic value of the hardnesses of individual phases. Orig. art. hass 2 figures and table.

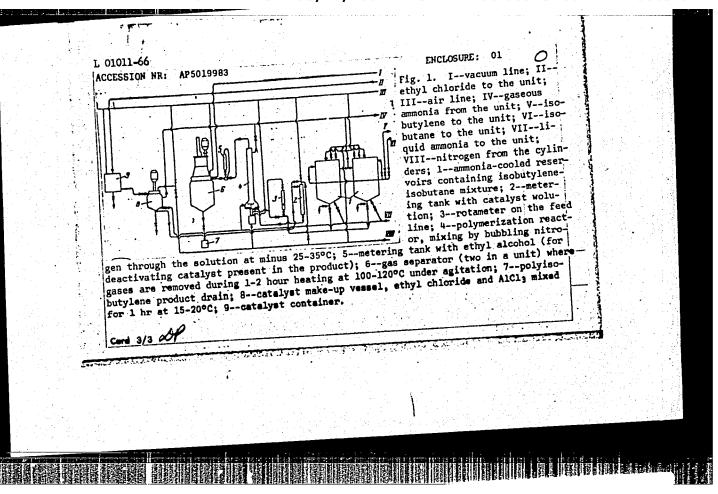
ASSUCTATION: none

Card 2/ 3



AUTHOR: Anosov, V. I.; Dintses, A. I.; Martynova, N. V.; Hullin, M. A.; Nikonorov, Ye. H.; Popova, L. A.; Savostin, A. P.; Chemodanova, Ye. S. TITLE: Development of a continuous process for production of polyisobutylene with molecular weights of 10,000 and 20,000 SOURCE: Khimiya i tekhnologiya topliv i masel, no. 8, 1965, 19-24 TOPIC TAGS: isobutylene, polymerization, lubricant additive, fuel thickener of the study was to develop a continuous process for production of polyisobutylene with molecular weights of 10,000 (commercial oil additive P-10) and 20,000 (commercial oil additive P-20). These additives are used in tive P-10 and 20,000 (commercial oil additive P-20). These additives are used in tive P-10 and 20,000 (commercial oil additive P-20). These additives are used in the polymerization in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent (isobutane, pentane, and others) using butylene is polymerized in an inert solvent in an inert solvent in a pentane, and others) is a pentane in a pe	UR/0065/65/000/008/0019/0024	EWT(m)/EPF(c)/EWP(1)/T DJ/RM	
AUTHOR: Anosov, V. I., Dintses, A. I.: Martynova, N. V.; Mullin, M. A.; Mikonorov, Ye. M.; Popova, L. A.; Savostin, A. P.; Chemodanova, Ye. S. Wight in the proposal of a continuous process for production of polyisobutylene with molecular weights of 10,000 and 20,000 SOURCE: Khimiya i tekhnologiya topliv i masel, no. 8, 1965, 19-24 TOPIC TAGS: isobutylene, polymerization, lubricant additive, fuel thickeners, for production of polyisobutylene with molecular weights of 10,000 (commercial oil addiduction of polyisobutylene with molecular weights of 10,000 (commercial oil addiduction of polyisobutylene with molecular weights of 10,000 (commercial oil addiduction of polyisobutylene with molecular weights of 10,000 (commercial oil additive P-10) and 20,000 (commercial oil additive P-20). These additives are used in tive P-10) and 20,000 (commercial oil additive P-20). These additives are used in manufacturing automotive, aviation, and some special burpose libricating oils of the polymerization unit is shown in fig. 1 of the Enclosure. The linear velocity scale polymerization unit is shown in fig. 1 of the Enclosure. The linear velocity scale polymerization unit is shown in fig. 1 of the Enclosure. The linear velocity scale polymerization unit is shown in fig. 1 of the Enclosure. The linear velocity scale polymerization unit is shown in fig. 1 of the Enclosure.	542.61.002.2		
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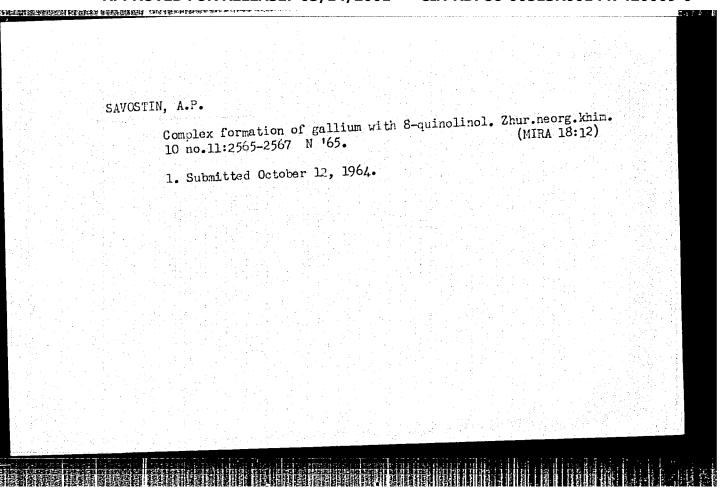
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MULLIN, M.f. AVONTIN, A.P.; CHEMODAKOVA, Ye.S.

Bavelopment of the continuous method for the production of polyisobutylene with 1000-3000 molecular weights. Khim. i polyisobutylene with 1000-30123-26 '65.

1. Yefremovskiy zavod sinteticheskogo kauchuka.



ANOSOV, V.I.; DINTSES, A.I.; MARTYNOVA, N.V.; MULLIN, M.A.; NIKONOROV, Ye.M.; POPOVA, L.A.; SAVOSTIN, A.P.; CHEMODANOVA, Ye.S.

Development of the continuous method for the preparation of polyisobutylene with 10,000 and 20,000 molecular weights. Khim. i tekh. topl. i masel 10 no.8:19-24 Ag '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva i Yefremovskiy zavod sinteticheskogo kauchuka.

L_17690-65 EWT(m)/EPF(c)/EWG(v)/EPR/EWP(j)/T Pc-L/Pe-5/Pr-L/Ps-L AFWL/ ASD(m)-3/ASD(f)-2/AS(mp)-2/SSD/ASD(a)-5/RAEM(i)/RAEM(c)/ESD(gs)/ESD(t) RM/WW s/0020/64/159/002/0303/0305 ACCESSION NR: AP4049481 AUTHORS: Zhurkov, S. N. (Corresponding member AN SSSR); Savostin, A. Ya.; Tomashevskiy, E. Ye. TITLE: Study of the mechanism of polymer disintegration by the electron paramagnetic resonance method SOURCE: AN SSSR. Doklady*, v. 159, no. 2, 1964, 303-305 TOPIC TAGS: electron paramagnetic resonance, polymer, radical polymerization, stress analysis/kapron ABSTRACT: The purpose of the investigation was to trace the occurrence of microradicals during the course of disintegration of a polymer under the influence of uniaxial tensile stresses. Tests have shown that electron paramagnetic resonance can display the destruction of the chemical bonds in stressed highly oriented fibers of polycarpolactame (kapron). The experiments were made at room Card

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ACCESSION NR: AP4049481

temperature under atmospheric conditions, using kapron samples with and without a stabilizer (di-β-naphtyl-n-phenylenediamine). / Samples in the form of bundles of 15 x 104 fibers with total cross section area 4 mm² were stretched directly in the resonator of a laboratory epr spectrometer operating in the 3 cm band. The stabilizer suppressed the doublet of triplets observed in the epr spectrum of the unstabilized fibers, leaving only the singlet due to the inhibitor. The formation and accumulation of free radicals was observed under the influence of a constant load. In the case of unstabilized fibers the number of radicals reaches a maximum at large load (60--66 kg/mm²) and begins to drop off, whereas no such drop is observed in stabilized fibers. Both the epr signal and the concentration of the radicals increase approximately exponentially with the load, while the rate of radical concentration increases linearly with the load. The results indicate that the use of the epr method yields important information on the mechanism of destruction and deformation of polymers. Orig. art. has: 4 figures.

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ACCESSION NR: AP4049481

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe
Akademii nauk SSSR (Physicotechnical Institute, Academy of Sciences
SSSR)

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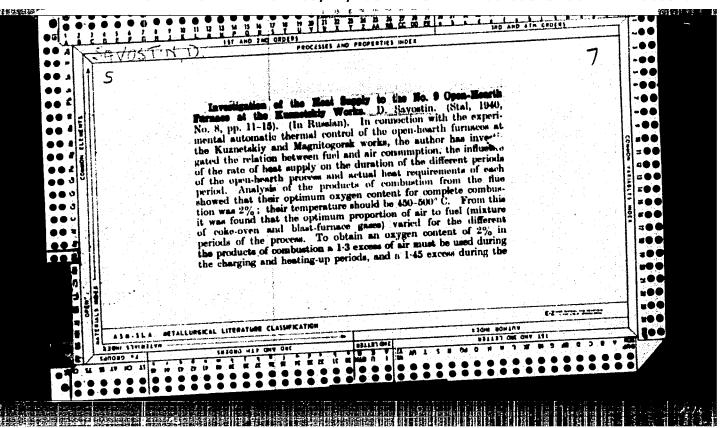
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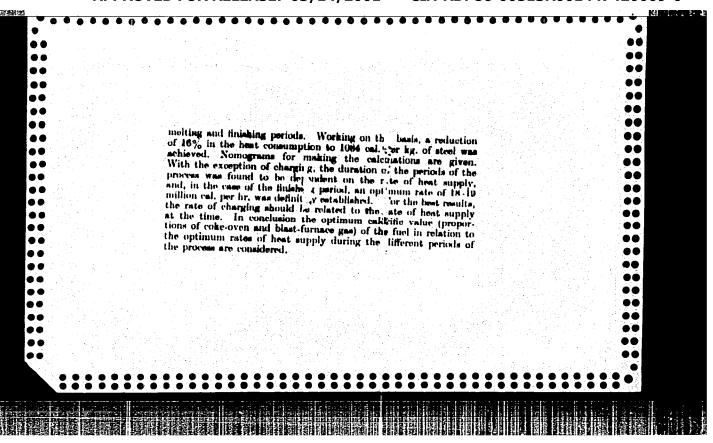
ment (RE-1301). The test techniques are briefly described. The results show that the mechanical stresses exert a strong influence on the photodestruction of oriented caprone. However, the kinetics of accumulation of microradicals is quite complicated at room temperature, since irradiation causes both production and recombination of radicals. Under atmospheric conditions, the radicals are destroyed after several tens of minutes. To prevent thermal recombination of the radicals, the number of produced photoradicals depends on the load, increasing somewhat with increasing deformation of the samples. More radicals were produced in samples deformed prior to cooling with nitrogen than in samples which were cooled first and ultraviolet decreases almost exponentially. A formula is derived for the rate of photodestruction of stressed polymer, but it is pointed out that further research for continuous interest and valuable remarks. The authors thank S. N. Zhurkoy formula.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Toffe AN SSSR, Leningrad

Card 2/3

WW/GG/RM EWT(1)/EWT(m)/EWP(j)/T L 36409-66 SOURCE CODE: UR/0120/66/000/003/0156/0157 ACC NR: AP6022016 AUTHOR: Tomashevskiy, E. Ye.; Yegorov, Ye. A.; Savostin, A. Ya. ORG: Physico-Technical Institute AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR) TITLE: Using magnetic-field pulse modulation for recording the original form of NMR and EPR spectra SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 156-157 TOPIC TAGS: NMR, EPR, magnetic field pulse modulation ABSTRACT: Modulation of magnetic field by high-amplitude pulses (exceeding the absorption range) is suggested for the purposes of recording original NMR and EPR spectra. The method results in a 100% modulation of the absorption signal and ensures, without line-shape distortion, a higher sensitivity as compared to the method of "small" sinusoidal modulation. The direct record of the original spectrum enhances accuracy in calculating absorption-line momenta. The method, first suggested by B. E. Holder et al. (Phys. Rev., 1955, 98, 1, 265), involves the signals modulated by trapezoid pulses having a repetition rate of a few dozen pulses per second and a duty factor of 0.5; simultaneously, a slow linear sweep of the magnetic field is performed. NMR spectra of polymethyl methacrylate and an EPR spectrum of DFPG are shown. The method is applicable to standard NMR wide-line spectrometers as well as to superheterodyne-type EPR spectrometers. Orig. art. 4 figures.
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SAVOSTIN, D. G.; URODA, L. A.; VERENINOVA, N. K.

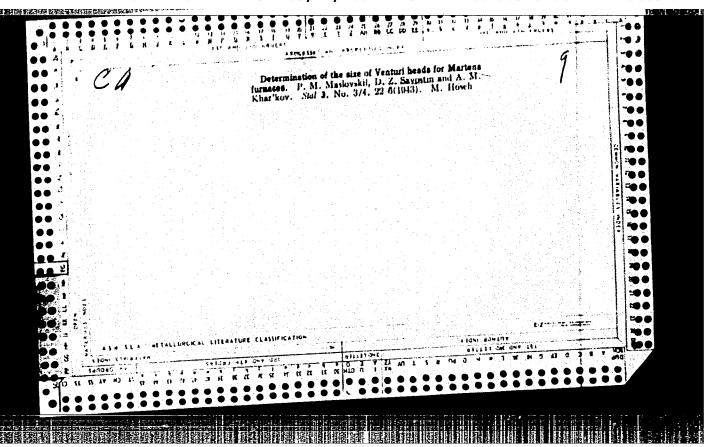
"The Therapeutic Effect of Streptomycin in Experimental Brucellosis Infections," Trudy Nauchnoissledovatel'skogo Instituta Mikrobiologii i Epidemiologii Yugo-Vostoka SSSR (Works of the Scientific Research Institute for Microbiology and Epidemiology of the Southeastern USSR), Saratov, Vol 1, 1951, pp 157-163.

SAVOSTIN, D.G., kand.med.nauk, otv.red.; FENYUK, B.K., prof., red.; FEDOROV. V.N., prof., red.

> [Natural focus and epidemiology of especially dangerous infectious diseases] Prirodnaia ochagovost i epidemiologiia osobo opesnykh infektsionnykh zabolevanii; sbornik rabot mezhinstitutskoi nauchnoi konferentsii. Red.kollegiia; D.G.Savostin, B.K. Feniuk, V.N. Fedorov. Saratov, Gos. nauchno-issledotatel'skii in-t mikrobiologii i epidemiologii Iugo-Vostoka SSSR M-va zdravookhraneniia SSSR, 1959. 595 p.

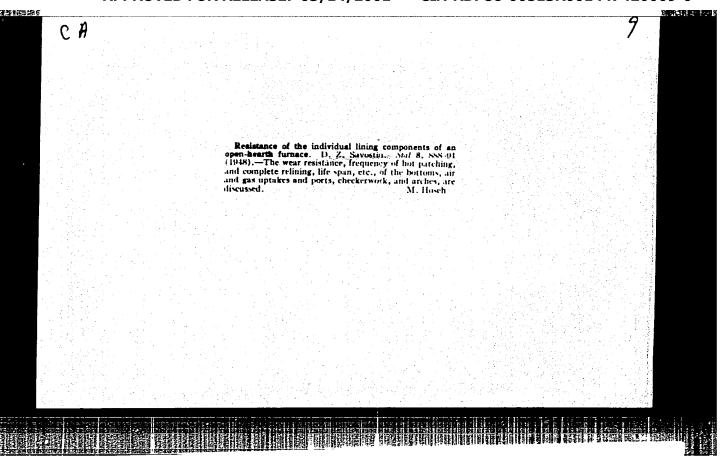
1. Mezhinstitutskaya nauchnaya konferentsiya po prirodnoy ochagovosti i epidemiologii osobo opasnykh infektsionnykh zabolevaniy. Saratov, 1957. 2. Gosudarstvennyy nauchno-issledovatel skiy institut mikrobiologii i epidemiologii Yugo-Vostoka SSSR (g. Saratov) (for Fenyuk). 3. Gosudarstvennyy nauchno-issledovatel skiy institut mikrobiologii i epidemiologii Yugo-Vostoka SSSR (g.Saratov); Sredne-Aziatskiy nauchno-issledovatel'skiy protivochumnyy institut (g.Alma-Ata); Turkmenskaya respublikanskaya protivochumnaya stantsiya (g.Ashkhabad) i Turkmenskiy institut zhivotnovodstva i veterinarii (g.Ashkhabad) (for Fedorov).

(COMMUNICABLE DISEASES)



Using coke gas cut-off and throttle stabilization, Stal' 7 no.3:206-208 '47. (MIRA 9:1)

1.Kuznetskiy metallurgicheskiy kombinat. (Smelting furnaces)



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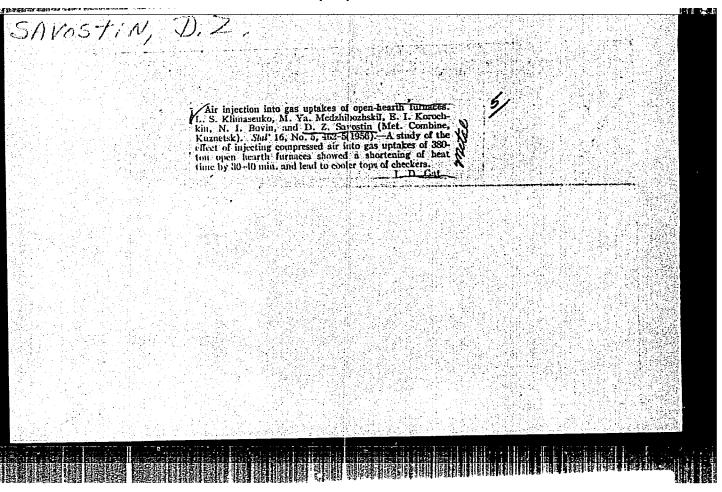
SAVOSTIN, D. Z.

"Performance of Open-Hearth Furnaces with Chrome Magnesite Lining." (Dissertation For Degree for Candidate of Technical Sciences) Min Ferrous Metallurgy USSR, Kuznetsk Order of Lenin, Order of Kutuzov First Class, and Order of Labor Red Banner Metallurgical Combine imeni I. V. Stalin, Stalinsk, 1954

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Using composite crowns in open-hearth furnaces. Stal.proizv. no.1:
89-93 '56. (MERA 9:9)

1.Kuznetskiy metallurgicheskiy kombinat imeni Stalina.
(Open-hearth furnaces)



18(5) PHASE I BOOK EXPLOITATION SOV/1675

Savostin, Dmitriy Zakharovich, Candidate of Technical Sciences

Rabota martenovskikh pechey s khromomagnezitovymi svodami (Operation of Open-hearth Furnaces With Chrome-Magnesite Roofs) Sverdlovsk, Metallurgizdat, 1958. 264 p. 2,700 copies printed.

Ed.: Aleksandr Vladimirovich Kavaderov; Ed. of Publishing House: V.P. Kel'nik; Tech. Ed.: Ye. M. Zef.

PURPOSE: This book is intended for engineering personnel engaged in open-hearth steel production. It may also be used by students of metallurgical vuzes.

COVERAGE: This book treats briefly the properties of Dinas and chrome-magnesite refractory bricks, describes various constructions of chrome-magnesite roofs, and discusses special thermal and engineering features in the operation of open-hearth furnaces with basic roofs. Data is presented on

Card 1/8

Operation of Open-hearth Furnaces (Cont.) SOV/1675 roof life and the increase of productivity and decrease is consumption of refractories per ton of steel in furnaces chrome-magnesite roofs. Academicians A.A. Baykov, P.P. F. D.S. Belyankin, N.N. Smirnov, and Professors A.S. Frenkel G.V. Kukolev, I.S. Kaynarskiy, and I.S. Smelyanskiy are mentioned as contributors to the field of refractories. are 102 references, of which 92 are Soviet, 8 English, 1	with Budnikov,
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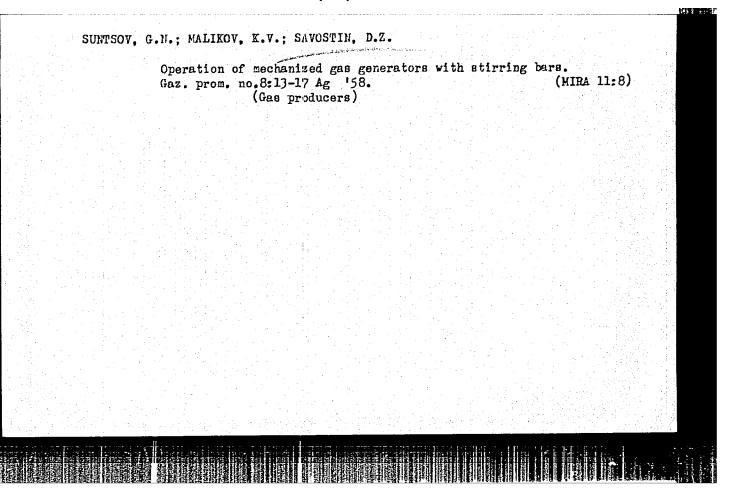
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[Open-hearth steelmaking process; practices of the Kuznets Metallurgical Combine] Martencovskoe proizvodstvo stali; opyt raboty KMK. Moskva, Gos. neuchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 288 p. (MIRA 14:10) (Open-hearth process)

